

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **11-263733**

(43)Date of publication of application : **28.09.1999**

---

(51)Int.Cl.

A61K 38/00  
A23K 1/16  
A23L 1/30  
A23L 1/305  
A61K 31/73  
A61K 31/73  
A61K 31/73

---

(21)Application number : **10-066928**

(71)Applicant : **HANKYU KYOEI BUSSAN INC**

(22)Date of filing : **17.03.1998**

(72)Inventor : **KAGAWA KYOICHI  
MATSUTAKA TOSHIKO  
BAN YASUCHIKA  
FUKUHAMA CHIZUKO  
FUJINO HIROAKI**

---

## (54) LIPID METABOLISM IMPROVER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a safe and readily ingestible lipid metabolism improver, food and drink, and feed.

SOLUTION: This improver contains a mixture of a protein hydrolyzate prepared by hydrolyzing a protein or a protein-containing material by a protease or an acid, and having 3-4 average peptide chain length and activities for improving lipid metabolism, and a chitosan as active ingredients. The weight ratio of the protein hydrolyzate to the chitosan formulated therewith is preferably (4:1)-(2:3).

---

## LEGAL STATUS

[Date of request for examination] 19.11.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or

Express Mail No.  
EV206807498US

application converted registration]

[Date of final disposal for application]

[Patent number] 3108675

[Date of registration] 08.09.2000

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office